



**Australian Government**

# **Assessment Requirements for AHCBAC509 Plan and manage long-term weed, pest and disease control in crops**

**Release: 1**

# Assessment Requirements for AHC BAC509 Plan and manage long-term weed, pest and disease control in crops

## Modification History

| Release   | Comments                                                                                                                    |
|-----------|-----------------------------------------------------------------------------------------------------------------------------|
| Release 1 | This version released with AHC Agriculture, Horticulture and Conservation and Land Management Training Package Version 4.0. |

## Performance Evidence

An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit. There must be evidence that the individual has planned and managed two long-term weed, pest and disease control in crops operations on at least two occasions and has:

- monitored information on pest and weed numbers, density and control
- analysed and extracted information from a range of sources and discussions
- planned and managed long-term weed, pest and disease control including developing a plan and amending the plan during the operations
- established processes or strategies, procedures and controls for long-term weed, pest and disease control
- considered the impacts and risks associated with long-term weed, pest and disease control methods
- demonstrated use of technology to improve efficiency
- assessed crop end use and agrochemical maximum residue limits (MRL) and selected appropriate agrochemical
- explained, and delivered instructions about the plans and scheduling of the weed, pest and disease control operations to both staff and contractors, as well as suppliers and customers
- recognised poor growth and lack of vigour caused by weeds, pests and disease rather than nutrient deficiency, with consideration to biosecurity
- evaluate and adjust appropriately to environmental implications and workplace health and safety hazards
- interpreted information on pest and weed numbers, density and control
- used records and observations to evaluate and report on weed, pest and disease control strategies
- planned land use incorporating long term weed, pest and disease control strategies
- followed workplace health and safety and biosecurity policies.

## Knowledge Evidence

An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:

- pest and weed species, including their life cycles and reproduction or multiplication capability
- pest, weed and disease control strategies including integrated pest management
- effects on crops of weeds, pests or diseases including:
  - competitive effects on crop yield
  - threshold levels
  - effects of alternative methods of control
- role of technology in improving efficiency
- agrochemical MRL for domestic and export, primary and secondary product outcomes
- relevant legislation and regulations relating to:
  - workplace health and safety
  - environment and biosecurity
  - contractor engagement
  - chemical use and application
  - vehicle and plant use
- environmental controls and codes of practice applicable to the workplace, and to the weed, pest and disease control operations
- sound management practices and processes to minimise noise, odours, and debris from weed, pest and disease control operations
- workplace biosecurity policies.

## Assessment Conditions

Assessment of skills must take place under the following conditions:

- physical conditions:
  - a workplace setting or an environment that accurately represent workplace conditions
- resources, equipment and materials:
  - historical data and organisational records
  - information regarding the characteristics of the crop planned for, or under production
  - information regarding the local geography, soil and climatic conditions
  - information regarding pesticide or herbicide use, alternative methods and non-chemical preventative methods
- specifications:
  - pesticide or herbicide application machinery and equipment operation and maintenance manuals and manufacturer specifications
  - agrochemical MRL for domestic and export, primary and secondary product outcomes
  - legislative and regulatory requirements applicable to pesticide or herbicide application

- industry and workplace biosecurity procedures applicable to pesticide or herbicide application
- relationships:
  - managers, operators and contractors
- timeframes:
  - according to the job requirements.

Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards.

## Links

Companion Volumes, including Implementation Guides, are available at VETNet: -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=c6399549-9c62-4a5e-bf1a-524b2322cf72>